Parts for Scope Clock

 Capacitors Potentiometers

 2 - 4.7uF, 450V (electrolytic) 1–50K or 47K-.25W top adjust (503 or 473)

 5 - .1uF (104) (ceramic) 2-1M ,.25W top adjust (105)

 1 - 1,000uF ,16 – 25V (electrolytic) 2 - 50K , .12W side adjust

 1 - 100uF , 10 – 25V (electrolytic) 2 – 50K, .12W top adjust

 1 - .01uF (103)(ceramic)

Diodes Miscellaneous

2 - 1N4007 3 - push buttons

3 - 1N4001 1 - DPDT Relay 9 – 12 V coil, non-latching

 1 - Rectifier Bridge (25V #512-2KBP01M)

 1 - 5V regulator 7805

IC Sockets 1 - 20MHZ XTAL (not w/ 18f2685)

1 - 20 pin 1- four pin jumper

3 - 8 pin 1 - solder-in fuse

1 - 28 pin 1 - led

 1 - neon lamp

 Transformer -120V/240V prim., 7-10 V sec

 Wire

 EX269 HV transformer (HV only)

Transistors GPS (Optional)

4– X13003 or X616 (NPN) GPS module

1 – MPSA92 (PNP) GPS antenna

2 - 2N3904 (NPN) 5 pin edge socket

1 - MPSA44 (NPN) 5 pin connector

Resistors (1/4 Watt, unless otherwise noted)

2 – 180K Chips

5 - 47K ( yellow purple orange ) PIC18f26k20

8 - 10K ( brown black orange ) TLC7528 DAC

4 - 4.7 K ( yellow purple red ) 12f629 PIC

5 - 2.2 K ( red red red ) (2) 4032 digital rheostats -

2 - 330K ( orange orange yellow ) # 579-MCP 4132-103E/P

2 - 220K (red red yellow )

1 - 1K ( brown black red ) Battery backup

1 - 10M ( brown black blue ) 1 – nine volt battery clip

1 - 100K ( brown black yellow ) 1 - relay

1 - 470 ohm ( yellow purple brown ) 1 – 1N4001 diode

1 - 470K , ½ W ( yellow purple yellow ) 1 – 10K ohm resistor

1 – 4.7 ohm , 1W ( yellow purple gold) 1 – 78L05 regulator

1 - 10 ohm , 3W ( brown black black ) 1 – miniature led

1 – 13K 2 – 1,000uF, 6.3V caps

1 - 470K